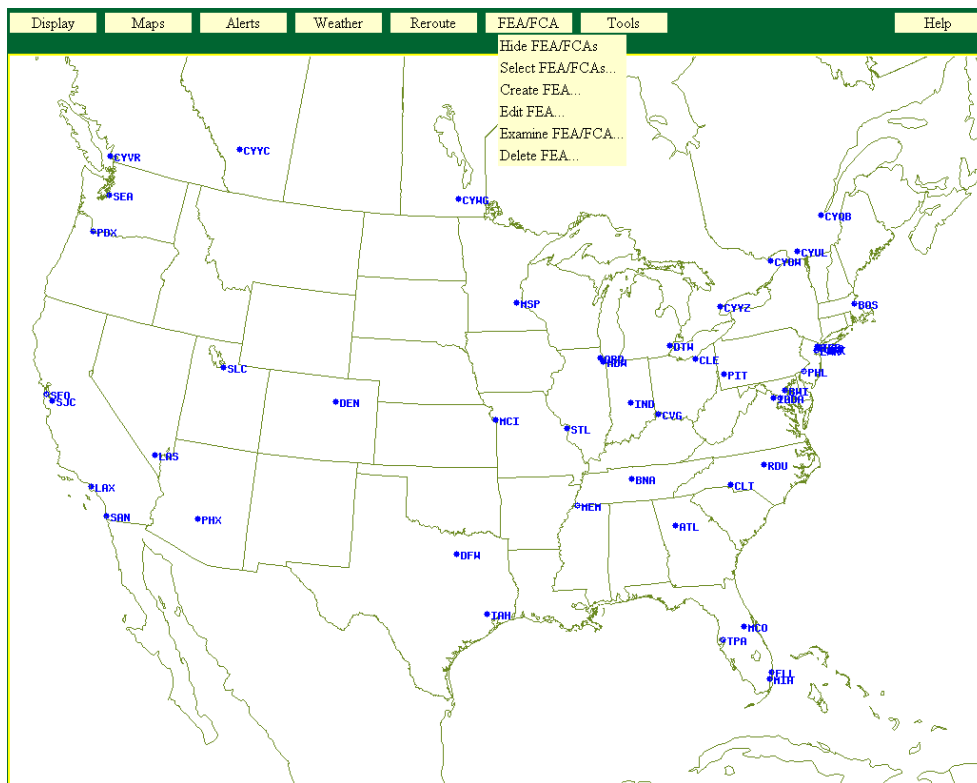


## 8. FEA/FCA Menu



This section contains information on the commands available on the FEA/FCA menu. FEA/FCA stands for Flow Evaluation Area/Flow Constrained Area. This function allows you to produce graphic overlays showing areas where flight rerouting may be necessary. The following commands are currently available:

- **Show/Hide FEA/FCAs**  
Lets you display or hide all FEA/FCAs selected in the Current FEA/FCAs dialog box.
- **Select FEA/FCAs**  
Lets you select which FEA/FCAs you want to display.
- **Create FEA**  
Lets you create a new FEA and designate it Private or Shared.
- **Edit FEA**  
Lets you edit an FEA definition. FCAs can be edited only by Command Center users.
- **Examine FEA/FCA**  
Displays a time line that shows traffic demand for an FEA/FCA.
- **Delete FEA**  
Lets you remove a current FEA from the database. FCAs can be deleted only by Command Center users.

## Show/Hide FEA/FCAs

The **Show/Hide FEA/FCAs** command lets you toggle the display of FEA/FCAs. If you issue the Show FEA/FCA command, then all of the FEA/FCAs that are selected in the Select FEA/FCA dialog box will be drawn on the display. If you issue the Hide FEA/FCA, no FEA/FCAs will be drawn on the display. Either Show or Hide FEA/FCAs appears on the FEA/FCA menu, depending on the status of the display. That is, if FEA/FCA polygons currently appear on the display, the FEA/FCA menu option will read Hide FEA/FCAs.



1. Click **FEA/FCA** on the Main Menu.
2. Click **Show FEA/FCAs or Hide FEA/FCAs**.

Hide FEA/FCAs  
Select FEA/FCAs...  
Create FEA...  
Edit FEA...  
Examine FEA/FCA...  
Delete FEA...

Select FCAs

The **Select FCAs** command lets you specify which FCAs you want to display. Only Public FCAs created by the Command Center are available for display.

Display
Maps
Alerts
Weather
Reroute
FEA/FCA
Tools
Help

1. Click **FEA/FCA** on the Main Menu.
2. Click **Select FEA/FCAs**.

Hide FEA/FCAs  
 Select FEA/FCAs...  
 Create FEA...  
 Edit FEA...  
 Examine FEA/FCA...  
 Delete FEA...

### Select FEA/FCA Dialog Box

The Select FEA/FCA dialog box allows you to select from

- All public FCAs or FEAs created by the FAA Command Center
- Any shared FEAs created by another CCSD user
- Any shared FEAs created by the FAA and designated for viewing on the CCSD
- Any private FEAs created by your facility

**Note:** FEAs and FCAs will be automatically dropped from the Select FEA/FCA dialog box 30 minutes after the end time unless they are created from your facility.

After you click **Select FEA/FCAs**, the Select FEA/FCAs dialog box appears, looking somewhat like the following:

Select FEA/FCA - Microsoft Internet Explorer provided by The VOLPE Center

Current FEA/FCAs

Combined Report

#	Show	Type	Domain	Color	Name	Info	Timeline	Report	Departure	Arrival	Count
1	<input checked="" type="checkbox"/>	FCA	PUBLIC	KHAKI	FCA001	Info	Timeline	Report		(ZNY ZBW)	33
2	<input checked="" type="checkbox"/>	FCA	PUBLIC	LIGHT BLUE	FCA002	Info	Timeline	Report		(ORD MDW)	68
3	<input checked="" type="checkbox"/>	FCA	PUBLIC	VIOLET RED	FCA003	Info	Timeline	Report		(PIT)	10
4	<input checked="" type="checkbox"/>	FCA	PUBLIC	REDDISH TAN	FCA004	Info	Timeline	Report		(EWR LGA JFK PHL)	79

OK
Apply
Cancel
Help

To display an FCA,

1. Click in the **Show** check box on the line of the FEA/FCA you select to display. You can select more than one FEA/FCA to display.

The **Type** and **Domain** entries were made when the FEA/FCA was created. These fields cannot be edited.

2. If you want to change the color that the FEA/FCA is displayed in, click **Color** and select a color from the drop-down list.

The **Name** was entered when the FEA/FCA was created and cannot be edited. The **Departure** and **Arrival** columns display any constraining conditions for flights that are part of the FEA/FCA.

Three conditions for the Departure and Arrival columns are listed below:

- Flights that *must* depart from or arrive at the listed airport
- Flights that *must not* depart from or arrive at the listed airport
- Flights that may depart from or arrive at any airport (blank entry)

On the CCSD display, the **Count** column is filtered to display the total number of flights for the airline of the user.

3. Click **OK** or **Apply**.

The resulting display could look like the following sample.



The Info, Timeline, Report and Combined Report buttons are described on the following pages.

### Info (FEA/FCA Information) Button

Click the **Info button** to display the data that was specified when the FEA/FCA was created.

<b>FCA Name:</b>	FCA001
<b>Domain:</b>	PUBLIC
<b>Created by:</b>	cdma cdm45
<b>Last Update:</b>	2003/04/07 11:14:01
<b>Start Date/Time:</b>	2003/04/07 13:00:00
<b>End Date/Time:</b>	2003/04/07 17:00:00
<b>NAS Element Type:</b>	CUSTOM_POLYGON
<b>Ceiling:</b>	600
<b>Floor:</b>	240
<b>Reason:</b>	NONE
<hr/>	
<b>Arriving:</b>	ZNY ZBW
<b>Aircraft Category:</b>	JT

Close Print

### Timeline Button

The Timeline button brings up the FEA/FCA Timeline. The Timeline functionality is described in detail in the Examine FEA/FCA section of this chapter.

Total Counts								
Peak Counts								
Report								
Info								
Updated: Total: Dep: (All) Arr: (ZNY ZBW)								
Current Total	4	9	11	7	2	3	12	8
Time	1500	1515	1530	1545	1600	1615	1630	1645

Close Help

## Report Button

The **FEA/FCA Report** lists the flights predicted to intersect the selected FEA/FCA, and it shows detailed data on each flight.

The following is an example of the report:

Refreshing Report: FCA001 Dep: Arr: ZNY ZBW Updated at 1114 - Microsoft Internet Explorer provided by The VOLPE Center

Arrivals											
Reroute	ACID	Entry	Exit	Orig	Dest	ETD	Type	Speed	Alt	Route	
	AAL1840	P	1552	1601	ORD	PVD	P1536	MD80	435	330	ORD..ELX..CRL.J554.JHW.J82.MEMMS.J
	AAL2034	P	1541	1552	ORD	BOS	P1524	MD80	438	330	ORD..ELX..CRL.J554.JHW.J82.ALB.GDM
	AAL2864	P	1643	1643	STL	BDL	P1618	MD80	445	330	STL.GATWY4.ROD..CXR..JHW.J82.WILE
	AAL382	P	1537	1549	ORD	LGA	P1524	MD80	442	330	ORD..GIJ.J146.ETG.MIP3.LGA/0133
	AAL888	P	1624	1624	STL	BOS	P1559	MD80	442	330	STL.GATWY4.ROD.J29.JHW.J82.ALB.GD
	AMT222	P	1549	1559	MDW	LGA	P1535	B752	460	370	MDW..GIJ.J146.ETG.MIP3.LGA/0132
	BLR570	A	1450	1500	ORD	BTW	A1433	CRJ2	427	330	ORD../ELX..CRL.J554.JHW.J29.LAGGS.B
	BLR580	A	1527	1537	ORD	AVP	A1508	CRJ2	445	330	ORD..ELX..CRL.J554.JHW.J106.LVZ..AVI
	BLR588	P	1638	1648	ORD	SYR	P1619	CRJ2	428	330	ORD..ELX..CRL.J554.JHW.J29.SYR/0113
	BLR600	P	1523	1533	ORD	ALB	P1504	CRJ2	445	330	ORD..ELX..CRL.J554.JHW.J82.ALB/0121
	BLR624	P	1535	1545	ORD	PWM	P1516	CRJ2	427	330	ORD..ELX..CRL.J554.JHW.J82.ALB..CON
	BLR630	P	1519	1531	ORD	MDT	P1503	CRJ2	436	290	ORD..GIJ.J146.WOOST.J34.DJB.J518.AVI
	BLR632	P	1626	1639	ORD	MDT	P1611	CRJ2	428	330	ORD..GIJ.J146.WOOST.J34.DJB.J518.AVI
<input type="checkbox"/>	COA1170	S	1641	1650	ORD	EWR	S1624	B73J	439	370	ORD..ELX..CRL.J584.SLT.FQM1.EWR/18
	EGF397	P	1525	1535	ORD	PWM	P1507	E135	421	370	ORD..ELX..DKK..UCA..PARSO..PWM/01
	EJA311	P	1519	1532	MDW	TEB	P1504	C560	408	410	MDW..GIJ.J554.JHW.LVZ3.TEB/0139
	FLG5639	P	1641	1648	MSP	MDT	P1545	CRJ2	429	330	MSP..DLL.J34.BAE.J34.GRR..SVM..CXR..
	IBU114	P	1644	1655	MDW	TEB	P1626	E135	440	370	MDW..ELX..CRL.J554.JHW.LVZ3.TEB/01

Print

Save

Close

Help

Hold

Info

Reroute

Filter: All Flights

You can sort the report by any of the column headings. By default, the report is sorted by ACID.

The FEA/FCA Report is fully described in the Examine FEA/FCAs section of this chapter.

## Combined Report Button

The Combined Report button lists all of the flights predicted to intersect the FEA/FCAs selected in the Select FEA/FCAs dialog box. For example, the report below shows the flights for two FCAs. To generate a combined report for these two FCAs, you would have to check their Show buttons in the Select FEA/FCA dialog box before clicking the Combined Report button.

Combined report for FCA001 FCA002 FCA003 FCA004 - Microsoft Internet Explorer provided by The VOLPE Center													
<b>FCA003</b>													
	ASH5770	A	1525	1534	MSP	PIT	A1430	E145	451	330	MSP..BAE294107..DJB..ACO.CUTTA2.P		
	CHQ5781	P	1614	1616	STL	PIT	P1544	E145	440	370	STL.GATWY4.CREEP..APE..CTW.WISK.		
	EGF73	P	1522	1534	ORD	PIT	P1507	E145	383	290	ORD..GIJ.J146.PLAIN..DJB..ACO.CUTTA		
	LOF5304	P	1534	1534	STL	PIT	P1506	E145	452	330	STL.GATWY4.CREEP..CTW.WISKE2.PT		
	MES3420	P	1645	1654	MSP	PIT	P1544	BA46	424	290	MSP..DLL.J34.BAE.J34.DJB..ACO.ACO1		
	UAL582	P	1649	1700	ORD	PIT	P1634	A319	470	290	ORD..GIJ.J146.WOOST.J34.DJB.V30.AC		
	USA1003	P	1525	1532	MKE	PIT	P1507	B733	435	370	MKE..SQUIB..ADALE.J34.DJB..ACO.CU		
	USA1102	A	1456	1513	MCI	PIT	A1422	A319	452	370	MCI..STL321064..VHP..APE..CTW.WISE		
	USA130	A	1446	1500	DEN	PIT	A1311	A321	453	330	DEN..DVV093033..APE..CTW.WISKE2.J		
	USA464	P	1532	1543	ORD	PIT	P1520	B733	430	290	ORD..GIJ.J146.WOOST.J34.DJB..ACO.C		
<b>FCA004</b>													
<input type="checkbox"/>	AAL1106	S	1925	1940	ORD	PHL	S1908	FK10	424	370	ORD..GIJ.J146.WOOST.J34.DJB.J518.AV		
<input type="checkbox"/>	AAL1352	S	1720	1732	ORD	PHL	S1704	FK10	424	370	ORD..GIJ.J146.WOOST.J34.DJB.J518.AV		
	AAL2842	P	1630	1631	STL	PHL	P1606	MD80	441	330	STL.GATWY4.BIB..SHB..JST.BUNTS1.PI		
	AAL382	P	1537	1549	ORD	LGA	P1524	MD80	442	330	ORD..GIJ.J146.ETG.MIP3.LGA/0133		
<input type="checkbox"/>	AAL768	S	1826	1838	ORD	PHL	S1811	FK10	424	370	ORD..GIJ.J146.WOOST.J34.DJB.J518.AV		
<input type="checkbox"/>	AMT214	S	1856	1907	MDW	LGA	S1842	B738	452	370	MDW..GIJ.J146.ETG.MIP3.LGA/2035		
<input type="checkbox"/>	AMT218	S	1749	1800	MDW	LGA	S1735	B738	452	370	MDW..GIJ.J146.ETG.MIP3.LGA/1935		
	AMT222	P	1549	1559	MDW	LGA	P1535	B752	460	370	MDW..GIJ.J146.ETG.MIP3.LGA/0132		
<input type="checkbox"/>	AMT226	S	1806	1824	MDW	PHL	S1802	B738	455	370	MDW..GIJ.J146.ETG.MIP3.LGA/0132		
<div> <input type="button" value="Print"/> <input type="button" value="Save"/> <input type="button" value="Close"/> <input type="button" value="Help"/> <input type="button" value="Hold"/> <input type="button" value="Info"/> <input type="button" value="Reroute"/>           Filter: <input type="button" value="All Flights"/> </div>													

**Create FEA**

The **Create FEA** command lets you create an FEA and designate it as Shared or Private. Shared FEAs can be viewed by all CCSD users and with users at the Command Center. All users can create Private FEAs, which can only be viewed by users at the facility that created it.

Display
Maps
Alerts
Weather
Reroute
FEA/FCA
Tools
Help

1. Click **FEA/FCA** on the Main Menu.
2. Click **Create FEA**.

- Hide FEA/FCAs
- Select FEA/FCAs...
- Create FEA...
- Edit FEA...
- Examine FEA/FCA...
- Delete FEA...

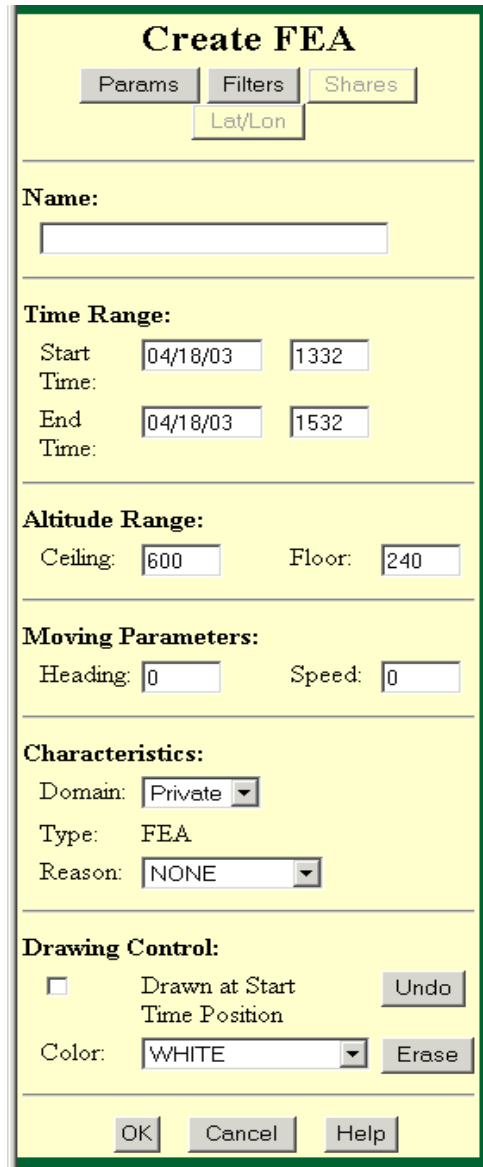
**Note:** Only the FAA Command Center can create a public FEA or FCA.

## Flow Evaluation Areas (FEA)

The Create FEA command allows you to create a Flow Evaluation Area, or FEA. An FEA is a region of airspace that has been designated as one of interest by the user. For example, an FEA could reflect an area where storm activity is projected or an area around an arrival fix. An FEA is defined by a geographic area, created as a "point-and-click" polygon, as well as filtering criteria such as altitude limits, airline, or aircraft type. Once an FEA is defined, the user can see data for the flights that intersect the defined area and meet all the filtering criteria. For example, if Northwest Airlines is anticipating a thunderstorm near Detroit, they could create an FEA to view the NWA flights that depart from DTW and that intersect the projected area.



After you select Create FEA, the following dialog box appears, with the Params tab selected.



The image shows a 'Create FEA' dialog box with a yellow background and a green border. At the top, there are four tabs: 'Params' (selected), 'Filters', 'Shares', and 'Lat/Lon'. Below the tabs, the dialog is divided into several sections:

- Name:** A text input field.
- Time Range:** Two rows of date and time inputs. The first row has 'Start' and 'Time' with values '04/18/03' and '1332'. The second row has 'End' and 'Time' with values '04/18/03' and '1532'.
- Altitude Range:** Two inputs for 'Ceiling' (600) and 'Floor' (240).
- Moving Parameters:** Two inputs for 'Heading' (0) and 'Speed' (0).
- Characteristics:** Three dropdown menus: 'Domain' (Private), 'Type' (FEA), and 'Reason' (NONE).
- Drawing Control:** A checkbox for 'Drawn at Start Time Position' (unchecked), a color dropdown menu (WHITE), and buttons for 'Undo' and 'Erase'.

At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.

Two tabs are available on the Create FEA dialog box:

1. Params (parameters)
2. Filters

**Note:** There are two grayed-out tabs, Shared and Lat/Lon, which are not currently available.

## Parameters Tab

The following table explains how to use the fields in the Params tab of the Create FEA dialog box.

<b>Params Tab</b>		
<b>Item</b>	<b>Description</b>	<b>What you do</b>
Name	User-specified name (alphanumeric and underscore characters only) for the FEA. Maximum of 30 characters.	Click in the text entry field and enter a name. Private or Shared FEAs cannot start with FCA.
<b>Time Range</b>		
Start Time	Initially filled in with the current date and time. The Start date is formatted mm/dd/yy. The start time is formatted as hhmm.	Place the pointer in the year, month, day, hours, or minutes value. Type in the date or time values.
End Time	Initially filled in with the start time plus two hours. The end date is formatted mm/dd/yy. The end time is formatted as hhmm.	Place the pointer in the year, month, day, hours, or minutes value and type in the date or time values.
<b>Altitude Range</b>		
Ceiling	This field is initially filled in with the default value for Ceiling.	Click in the Ceiling box and enter a one to three-digit number.
Floor	This field is initially filled in with the default value for Floor.	Click in the Floor box and enter a one to three-digit number.
<b>Moving Parameters</b>		
Heading	This field is initially set to zero. You can enter 1-3 digit values from 000 to 359 degrees. You need to enter data in this field if you want to see a moving FEA. Note that 000 = north.	Click in the Heading box and enter a one to three-digit number. See Moving Parameters Field, following this table.
Speed	This field is initially set to zero. You can enter 1-2 digit values from 00 to 99 knots. Enter a value at zero in this field if you want to create a stationary FEA. Enter some number greater than zero in this field if you want to create a moving FEA.	Click in the Speed box and enter a one to three-digit number.

Characteristics		
Domain	This field lets you decide if the FEA/FCA is to be Private or Shared. If the FEA/FCA is Private, it can be viewed only at the specific facility where it was created. If the FEA/FCA is Shared, it can be viewed by any WSD/CCSD user and by the Command Center.	Click in the Domain field or its arrow. In the resulting pull-down menu select the domain you want by clicking it.
Type	For a WSD/CCSD user, the only allowed type is FEA. A WSD/CCSD user is not allowed to create an FCA.	This field cannot be edited.
Reason	The reason that the FEA was created.	Click in the field or its arrow for a pull-down list of pre-defined reasons and select the appropriate reason.
Drawing Control		
Drawn at Start Time Position	This check box lets you specify whether you have drawn the FEA at the position associated with the current time or the position associated with the start time you entered in the Create FEA dialog box.	Leave unchecked if you have drawn the FEA at its current position. Check if you have drawn the FEA where you project it will be located at the FEA start time. This check box only matters if you are creating a moving FEA; it is irrelevant if you are creating a stationary FEA.
Color	Lets you determine the color of each FEA.	Click the button to display a color palette. Click a color that you want for the FEA.
Erase	Lets you delete the FEA polygon you just created.	Click <b>Erase</b> to delete the FEA polygon you just created.
Undo	Lets you delete the last point of the polygon you are drawing.	Click <b>Undo</b> to delete the last point of the polygon. Continue clicking Undo to delete previously defined points of the polygon. You can continue clicking Undo until all the previously defined points are deleted.

## Moving Parameters Fields

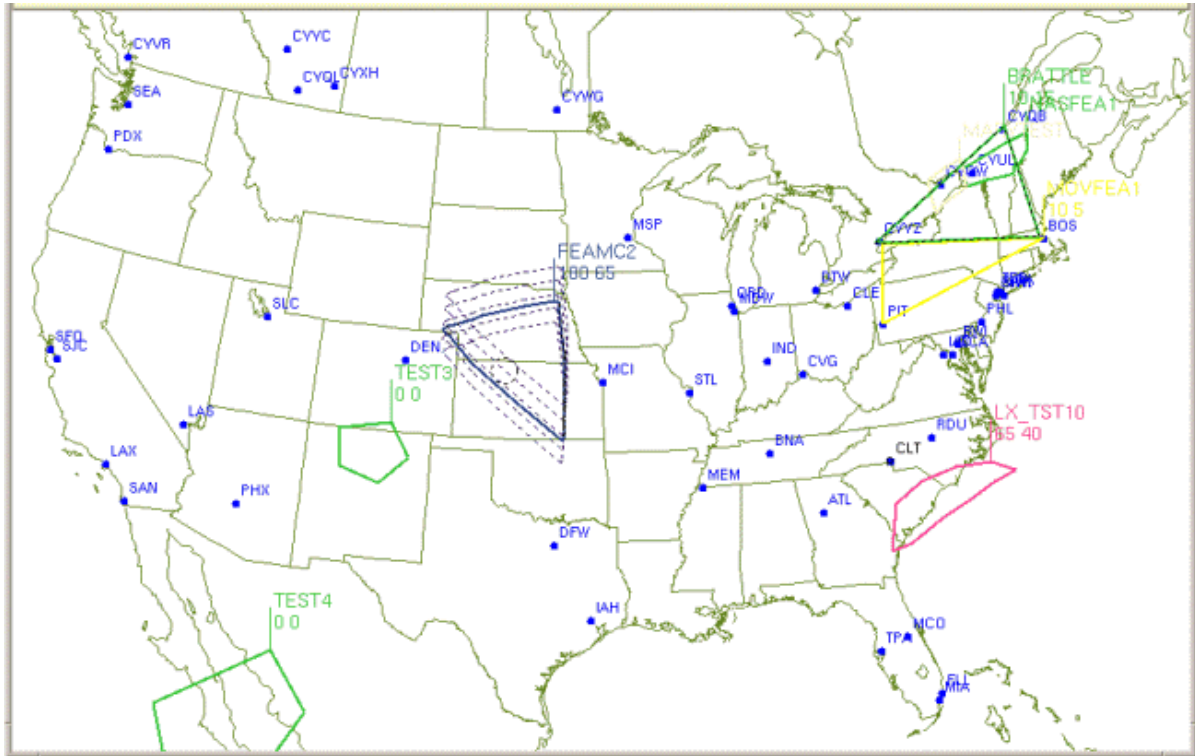
The Moving Parameters fields (Heading and Speed) must be filled in on the Create FEA dialog box if you want to create a moving FEA, which is discussed on the following page. The default value for each of these fields is zero, which indicates that a stationary FEA is being created. In the example below, the FEA that is being created is a moving FEA that has a heading of 100 degrees and moves at a speed of 20 knots.

The screenshot shows the 'Create FEA' dialog box with a yellow background and a green border. At the top, there are four buttons: 'Params', 'Filters', 'Shares', and 'Lat/Lon'. Below these is the 'Name:' field with the value 'FEA001'. The 'Time Range:' section contains 'Start Time:' (04/18/03, 1920) and 'End Time:' (04/18/03, 2120). The 'Altitude Range:' section contains 'Ceiling:' (600) and 'Floor:' (240). The 'Moving Parameters:' section contains 'Heading:' (100) and 'Speed:' (20). The 'Characteristics:' section contains 'Domain:' (Private), 'Type:' (FEA), and 'Reason:' (NONE). The 'Drawing Control:' section contains a checkbox for 'Drawn at Start Time Position' (unchecked), a color dropdown set to 'NAVY BLUE', and buttons for 'Undo' and 'Erase'.

Create FEA			
<div>Params Filters Shares Lat/Lon</div>			
Name: FEA001			
Time Range:			
Start Time:	04/18/03	1920	
End Time:	04/18/03	2120	
Altitude Range:			
Ceiling:	600	Floor:	240
Moving Parameters:			
Heading:	100	Speed:	20
Characteristics:			
Domain:	Private		
Type:	FEA		
Reason:	NONE		
Drawing Control:			
<input type="checkbox"/>	Drawn at Start Time Position	Undo	
Color:	NAVY BLUE	Erase	

## Moving FEAs

When you create or edit an FEA, you may if you wish give it a speed and a direction of movement. For example, the graphic below shows several stationary FEAs and a moving FEA; the dotted outline suggests the movement of the FEA, whose current position is drawn with a solid line. These dotted outlines represent past and future locations of the FEA. The dotted outlines are drawn at the starting location and at the one-quarter, one-half, three-quarter, and ending locations.



## Draw an FEA Polygon

To draw an FEA polygon on the display,

1. Make sure you have entered a name for the FEA in the Create FEA dialog box.
2. In the Create FEA dialog box, unchecked is the usual setting for the Drawn at Start Time Position field. Leave unchecked if you have drawn the FEA at its current position or if you are drawing a stationary FEA. Check if you have drawn the FEA where you project it will be located at the FEA start time.
3. Click the **left mouse button** on the map display to begin the polygon.
4. Click the **left mouse button** again to establish the next point; a line will be drawn on the display to show the portion of the FEA that you have drawn so far. Continue this process until you have established all the points you want. You do not need to close the polygon; the two end points will be automatically connected to close the polygon.
5. Click **OK** to close the dialog box. The polygon will disappear from the display but will be automatically redrawn once it has been entered in the ETMS database; this might take a minute or two.

## Filters Tab

Clicking on the Filters tab brings up the following dialog box.

**Create FEA**

Params Filters Shares Lat/Lon

Include Departures

Include Arrivals

Include Traverses

Include Airways

Include Locations

Include Aircraft type

Include Heading +/-

Include ACID

Remarks

☒ NRP ☒ LIFEGUARD ☒ CATIII

☒ ALTRV ☒ SWAP ☒ DVRSN

☒ ADCUS ☒ FCA ☒ WXRTE

Flight Level Lowest Highest

Aircraft Category ☒ Jet ☒ Prop ☒ Turbo

Weight Class ☒ Large ☒ Heavy ☒ Small

User Category ☒ GA ☒ Air Taxi ☒ Cargo

☒ Commercial ☒ Military

Active / Proposed ALL

Departure/Arrival Time Range

No Filter Start End

OK Cancel Help

This dialog box lets you define filter parameters for the flights that intersect the FEA. The default values are *Include*. The Include buttons are toggles. Clicking on any of them changes the value from Include to Exclude. The following table describes the information needed in the text entry fields. The text entry fields accept multiple entries with a space separating each entry.

<b>Flights Filter Tab</b>	
<b>Include/Exclude</b>	<b>Description</b>
Departure	Limits the selection to flights that depart from the listed airports or an airport in the listed ARTCC.
Arrivals	Limits the selection to flights that arrive from the listed airports or an airport in the listed ARTCC.
Traverses	Limits the selection to flights that traverse the listed sectors, fixes, or ARTCCs. Up to 64 characters.
Airways	Limits the selection to flights that use any of the listed airways within the FEA. Up to 64 characters.
Locations	Limits the selection to flights that are currently located in the specified sectors or ARTCCs. Up to 64 characters.
Aircraft Type	Limits the selection to flights of specific aircraft types. Up to 64 characters.
Heading	Limits the selection to flights whose heading upon entry into the FEA is equal to the specified heading $\pm$ the range. The Heading field accepts values from 000 to 359. The Range field accepts values from 000 to 180.
ACID	Limits the selection to flights with Aircraft IDs that begin with the characters specified by each entry. Accepts up to 64 characters.
Remarks	Limits the selection to flights with text in field 11 of the flight plan that match any of the selected remarks keywords. See the table on the following page for a list of keywords.
Highest Flight Level and Lowest Flight Level	Limits the selection to flights whose altitude anywhere within the FEA is predicted to be between the lowest and highest flight levels. The maximum entry for both fields is 600, and the minimum entry for both fields is 000. These levels are expressed in hundreds of feet. One entry in each field only.
Aircraft Category	Limits the selection to flights that have an aircraft category that matches one of the selected categories. The default is all categories selected, indicating that no filtering is required.
Weight Class	Limits the selection to flights that have a weight class that matches one of the selected categories. The default is all categories selected, indicating that no filtering is required.
User Category	Limits the selection to flights that have a user category that matches one of the selected categories. The default is all categories selected, indicating that no filtering is required.

<b>Include/Exclude</b>	<b>Description</b>
Active/Proposed	Limits the selection to flights that are Active or Proposed. Clicking the arrow displays three choices: Active, Proposed, or All. All indicates that no filtering is required. The default is All.
Departure or Arrival Time Range	Limits the selection to flights that depart or arrive within the specified time period. The Option menu provides three choices: Departure, Arrival, No Filter. You can enter start and end time. Time values 0000 to 2359 are accepted. The default is no filter.

## Remarks Keywords

The following table contains the standard keywords for flight remarks data.

<b>Remarks Keywords</b>	
<b>Boxes you check</b>	<b>Description</b>
NRP	National Route Program flight.
LIFEGUARD	Lifeguard or MEDEVAC flight.
CATIII	Flight has CATIII landing equipment.
ALTRV	Altitude Reservation. Usually a military request.
SWAP	Swapping flight from a standard to a nonstandard route. Usually done due to inclement weather.
DVRSN	Diversion recovery leg.
ADCUS	Advise Customs about this flight.
FCA	Flight is rerouted around a Flow Constrained Area.
WX RTE	Flight has been rerouted due to severe weather.



**Edit FEAs**

The **Edit FEAs** command lets you modify the selected FEA.

**Note:** Only users at Command Center can edit public FEA/FCAs.

Display
Maps
Alerts
Weather
Reroute
FEA/FCA
Tools
Help

1. Click **FEA/FCA** on the Main Menu.
2. Click **Edit FEA**.

FEA/FCA

Hide FEA/FCAs  
 Select FEA/FCAs...  
 Create FEA...  
 Edit FEA...  
 Examine FEA/FCA...  
 Delete FEA...

**Edit FEA**

Params
Filters
Shares

Lat/Lon

**Name:**

**Time Range:**

Start Time:

End Time:

**Altitude Range:**

Ceiling:  Floor:

**Moving Parameters:**

Heading:  Speed:

**Characteristics:**

Domain: Shared

Type: FEA

Reason: None

**Drawing Control:**

☐ Drawn at Start Time Position Undo

Color: GREEN Erase

The Edit FEA dialog box has the same fields and tabs as the Create FEA dialog box. Procedures for entering data is contained in the preceding section, Create FEA.

**Examine FEA/FCA**

The **Examine FEA/FCA** command brings up an FEA/FCA Time Line that details traffic demands for an FEA/FCA. This command also lets you produce an FEA/FCA Report that lists the flights predicted to intersect with the selected FEA/FCA during the specified time periods.

**Note:** Both the FEA/FCA Time Line and the FEA/FCA Report refresh every two minutes.

DisplayMapsAlertsWeatherRerouteFEA/FCAToolsHelp

1. Click **FEA/FCA** on the Main Menu.
2. Click **Examine FEA/FCA**.

- Hide FEA/FCAs
- Select FEA/FCAs...
- Create FEA...
- Edit FEA...
- Examine FEA/FCA...
- Delete FEA...

After you click **Examine FEA/FCA**, the Examine FEA/FCA dialog box appears. The FCA name is displayed in the pull-down box at the top of the dialog box.

1. Click in the FCA name field and select a name from the pull-down list.
2. Click **OK** or **Apply**.

FCA001 ▼

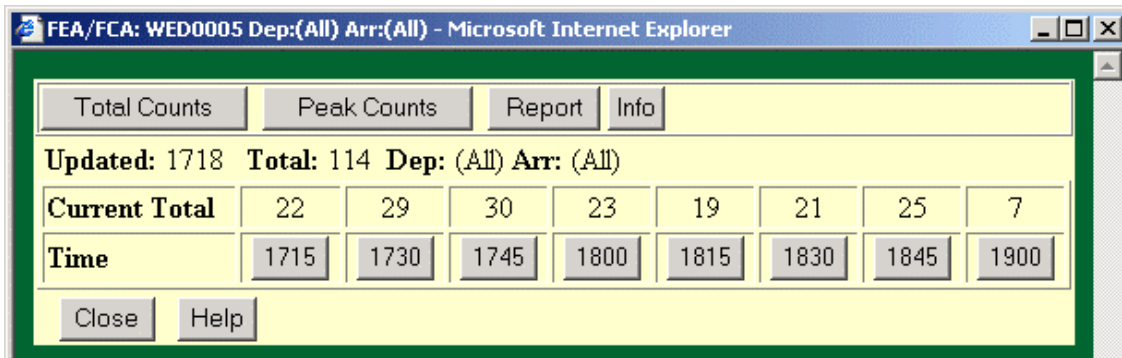
OK

Apply

Cancel

Help

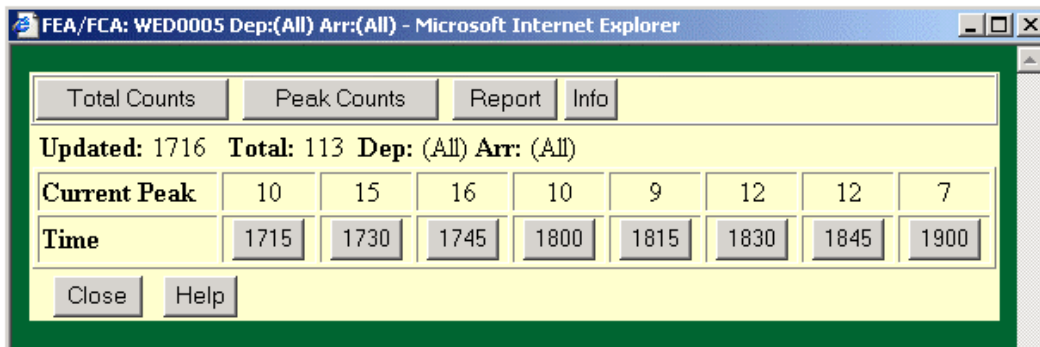
The FCA Time Line appears, similar to the one below.



The numbers on the bottom row indicate the start times of the 15-minute intervals. The label of the top row is Current Total, and the numbers in this row indicate the number of flights that occupy this FEA/FCA for at least one minute during the 15-minute interval.

**Note:** You can scroll to the right or resize the window to view all intervals in the time line.

- To change the Total Counts to Peak Counts, click the **Peak Counts** button. Your display would look like the following sample.



The label of the top row is changed to Current Peak, and the numbers in this row indicate the maximum number of flights expected to occupy the FEA/FCA during any one-minute interval within the 15-minute interval.

To generate a report, click the **FCA Report** button. The report will look like the following sample.

Refreshing Report: FCA001 Dep: Arr: ZNY ZBW Updated at 1114 - Microsoft Internet Explorer provided by The VOLPE Center

Arrivals										
Reroute	ACID	Entry	Exit	Orig	Dest	ETD	Type	Speed	Alt	Route
	AAL1840	P 1552	1601	ORD	PVD	P1536	MD80	435	330	ORD..ELX..CRL.J554.JHW.J82.MEMMS.J
	AAL2034	P 1541	1552	ORD	BOS	P1524	MD80	438	330	ORD..ELX..CRL.J554.JHW.J82.ALB.GDM
	AAL2864	P 1643	1643	STL	BDL	P1618	MD80	445	330	STL.GATWY4.ROD..CXR..JHW.J82.WILF
	AAL382	P 1537	1549	ORD	LGA	P1524	MD80	442	330	ORD..GIJ.J146.ETG.MIP3.LGA/0133
	AAL888	P 1624	1624	STL	BOS	P1559	MD80	442	330	STL.GATWY4.ROD.J29.JHW.J82.ALB.GD
	AMT222	P 1549	1559	MDW	LGA	P1535	B752	460	370	MDW..GIJ.J146.ETG.MIP3.LGA/0132
	BLR570	A 1450	1500	ORD	BTW	A1433	CRJ2	427	330	ORD../ELX..CRL.J554.JHW.J29.LAGGS..B
	BLR580	A 1527	1537	ORD	AVP	A1508	CRJ2	445	330	ORD..ELX..CRL.J554.JHW.J106.LVZ..AVI
	BLR588	P 1638	1648	ORD	SYR	P1619	CRJ2	428	330	ORD..ELX..CRL.J554.JHW.J29.SYR/0113
	BLR600	P 1523	1533	ORD	ALB	P1504	CRJ2	445	330	ORD..ELX..CRL.J554.JHW.J82.ALB/0121
	BLR624	P 1535	1545	ORD	PWM	P1516	CRJ2	427	330	ORD..ELX..CRL.J554.JHW.J82.ALB..CON
	BLR630	P 1519	1531	ORD	MDT	P1503	CRJ2	436	290	ORD..GIJ.J146.WOOST.J34.DJB.J518.AVI
	BLR632	P 1626	1639	ORD	MDT	P1611	CRJ2	428	330	ORD..GIJ.J146.WOOST.J34.DJB.J518.AVI
<input type="checkbox"/>	COA1170	S 1641	1650	ORD	EWB	S1624	B737	439	370	ORD..ELX..CRL.J584.SLT.FQM1.EWR/18
	EGF397	P 1525	1535	ORD	PWM	P1507	E135	421	370	ORD..ELX..DKK..UCA..PARSO..PWM/01
	EJA311	P 1519	1532	MDW	TEB	P1504	C560	408	410	MDW..GIJ.J554.JHW.LVZ3.TEB/0139
	FLG5639	P 1641	1648	MSP	MDT	P1545	CRJ2	429	330	MSP..DLL.J34.BAE.J34.GRR..SVM..CXR..
	IBU114	P 1644	1655	MDW	TEB	P1626	E135	440	370	MDW..ELX..CRL.J554.JHW.LVZ3.TEB/01

Print Save Close Help Hold Info Reroute Filter: All Flights

The column headers in this report are defined as follows:

FEA/FCA Report	
Column Header	Definition
ACID	Aircraft identifier for each flight
Entry	Time the flight will enter the FEA/FCA
Exit	Time the flight will exit the FEA/FCA
Orig	Airport of origin
Dest	Destination airport
ETD	Estimated time of departure, based on best available time from among the other departure time types
Type	Aircraft type. Example: B747
Speed	Air speed filed in a flight plan
Alt	Altitude in hundreds of feet
Route	Route from field 10 of the flight plan, from an early intent message, or from the ETMS database of default routes.

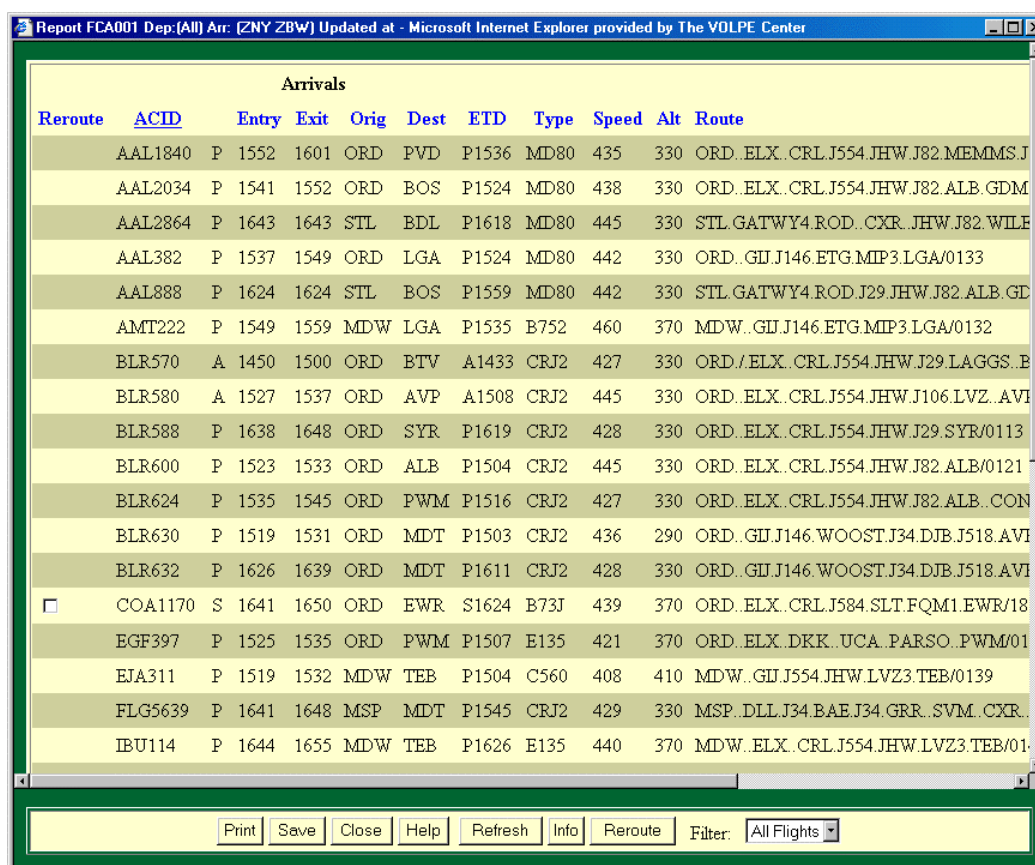
The letters following the ACID indicate the source of the route. P indicates it is from the flight plan, N from an early intent message, and S from the ETMS database of default routes. The rows of the FEA/FCA Report can be sorted on any column by clicking on the column header. Clicking in the header once gives you a forward sort (e.g., A to Z). Clicking it again gives a reverse sort (e.g., Z to A). The default sort is by Entry Time.

## FCA Report Buttons

The FCA Report has several buttons located at the bottom of the report. Print, Save, and Close work the same way that they do on all other dialog boxes. Two others, Hold/Refresh and Filter, are described below.

## Hold/Refresh

An FEA/FCA Report refreshes every 2 minutes in its default mode. If you want to stop this refreshing so that you can study the report, click the **Hold** button. After you click **Hold**, the button changes to Refresh, as in the following sample.



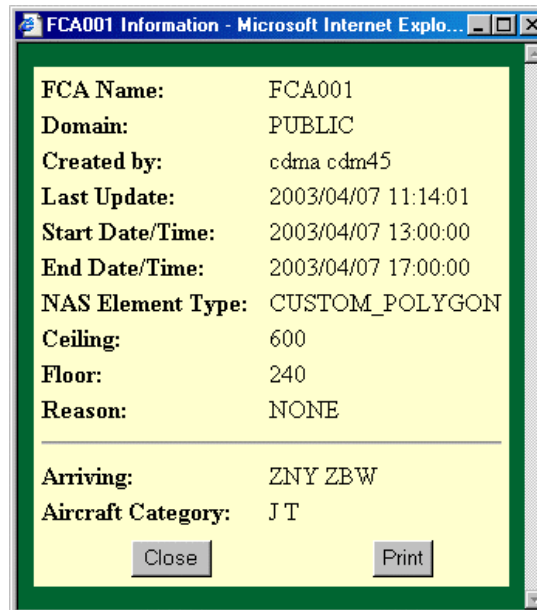
The screenshot shows a web browser window titled "Report FCA001 Dep:(All) Arr: (ZNY ZBW) Updated at - Microsoft Internet Explorer provided by The VOLPE Center". The main content area displays a table of arrivals. The table has columns: Reroute, ACID, Entry, Exit, Orig, Dest, ETD, Type, Speed, Alt, and Route. The data is sorted by Entry time. At the bottom of the window, there is a control bar with buttons: Print, Save, Close, Help, Refresh, Info, Reroute, and a Filter dropdown menu set to "All Flights".

Reroute	ACID	Entry	Exit	Orig	Dest	ETD	Type	Speed	Alt	Route
	AAL1840	P 1552	1601	ORD	PVD	P1536	MD80	435	330	ORD..ELX..CRL.J554.JHW.J82.MEMMS.J
	AAL2034	P 1541	1552	ORD	BOS	P1524	MD80	438	330	ORD..ELX..CRL.J554.JHW.J82.ALB.GDM
	AAL2864	P 1643	1643	STL	BDL	P1618	MD80	445	330	STL.GATWY4.ROD..CXR..JHW.J82.WILH
	AAL382	P 1537	1549	ORD	LGA	P1524	MD80	442	330	ORD..GIJ.J146.ETG.MIP3.LGA/0133
	AAL888	P 1624	1624	STL	BOS	P1559	MD80	442	330	STL.GATWY4.ROD.J29.JHW.J82.ALB.GD
	AMT222	P 1549	1559	MDW	LGA	P1535	B752	460	370	MDW..GIJ.J146.ETG.MIP3.LGA/0132
	BLR570	A 1450	1500	ORD	BTW	A1433	CRJ2	427	330	ORD./ELX..CRL.J554.JHW.J29.LAGGS.B
	BLR580	A 1527	1537	ORD	AVP	A1508	CRJ2	445	330	ORD..ELX..CRL.J554.JHW.J106.LVZ..AVI
	BLR588	P 1638	1648	ORD	SYR	P1619	CRJ2	428	330	ORD..ELX..CRL.J554.JHW.J29.SYR/0113
	BLR600	P 1523	1533	ORD	ALB	P1504	CRJ2	445	330	ORD..ELX..CRL.J554.JHW.J82.ALB/0121
	BLR624	P 1535	1545	ORD	PWM	P1516	CRJ2	427	330	ORD..ELX..CRL.J554.JHW.J82.ALB..CON
	BLR630	P 1519	1531	ORD	MDT	P1503	CRJ2	436	290	ORD..GIJ.J146.WOOST.J34.DJB.J518.AVI
	BLR632	P 1626	1639	ORD	MDT	P1611	CRJ2	428	330	ORD..GIJ.J146.WOOST.J34.DJB.J518.AVI
<input type="checkbox"/>	COA1170	S 1641	1650	ORD	EWR	S1624	B73J	439	370	ORD..ELX..CRL.J584.SLT.FQM1.EWR/18
	EGF397	P 1525	1535	ORD	PWM	P1507	E135	421	370	ORD..ELX..DKK..UCA..PARSO..PWM/01
	EJA311	P 1519	1532	MDW	TEB	P1504	C560	408	410	MDW..GIJ.J554.JHW.LVZ3.TEB/0139
	FLG5639	P 1641	1648	MSP	MDT	P1545	CRJ2	429	330	MSP..DLL.J34.BAE.J34.GRR..SVM..CXR..
	IBU114	P 1644	1655	MDW	TEB	P1626	E135	440	370	MDW..ELX..CRL.J554.JHW.LVZ3.TEB/01

In the Hold mode, the date and time of the last refresh appear at the top of the FEA/FCA Report. The report will remain in Hold mode until you click **Refresh**, at which time it returns to refreshing every two minutes.

## Info (FEA/FCA Information)

Click the **Info button** to display the data that was specified when the FEA/FCA was created.



FCA Name:	FCA001
Domain:	PUBLIC
Created by:	cdma cdm45
Last Update:	2003/04/07 11:14:01
Start Date/Time:	2003/04/07 13:00:00
End Date/Time:	2003/04/07 17:00:00
NAS Element Type:	CUSTOM_POLYGON
Ceiling:	600
Floor:	240
Reason:	NONE
<hr/>	
Arriving:	ZNY ZBW
Aircraft Category:	JT
<div>Close Print</div>	

## Reroute Function

The Reroute function lets you submit an early route intent for a selected FEA/FCA.

1. Click in a check box corresponding to a flight to edit the route for that flight. Note that not all flights have check boxes. You cannot submit routes for active or filed flights.

**Note:** More than one flight can be selected if the flights are to be assigned the same route.

- Click the **Reroute** button. The Reroute Intent for the FEA/FCA dialog box is displayed

**Reroute Intent for WED0005**

New Route:

Route Type:

New Speed:

New Altitude:

ACID	Orig	Dest	ETD	Type	Speed	Alt	Route
SWA35	AMA	DAL	S1844	B73Q	433	330	AMA.UK W7.DAL/1935

- Enter a new route by typing it in or by clicking the **Copy** button to copy the original route into the New Route field and editing the route.

**Note:** Routes must be entered in flight plan format; that is, all route elements must be separated by one or two dots.

- Click the **Route Type** button to select **Full** or **Partial** route. A full route must be specified from airport to airport. A partial route must be specified from fix to fix. The CCSD will automatically insert the departure and arrival airports for a partial route. This allows you to assign the same partial route to flights departing or arriving at nearby airports.
- You can also enter a new speed and/or altitude.
- Click **Submit** to enter the new early intent route in the database. A confirmation dialog box appears to inform you that a new route has been sent.

**Reroute Intent Submitted**

**Note:** Monitor the FEA/FCA Report to see if the route is accepted by ETMS. If the route is accepted, it should be reflected in the next update of the FEA/FCA Report data.

7. Click **Return to Flight List** to return to the Report window or click **Close Window** to return to the Select FEA/FCA dialog box.

## Filter

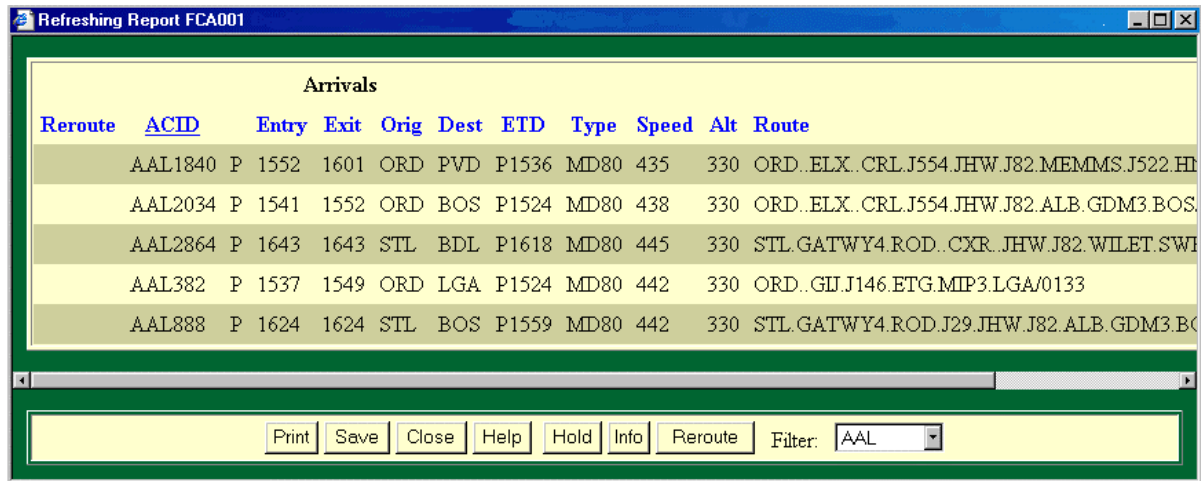
Initially, the FCA Report shows information for all airlines. The Filter button lets you select a specific airline for the report.

The screenshot shows a web browser window titled "Refreshing Report: WED0005 Dep: Arr: - Microsoft Internet Explorer". The main content area displays a flight report table with the following columns: **Reroute**, **ACID**, **Entry**, **Exit**, **Orig**, **Dest**, **ETD**, **Type**, **Speed**, **Alt**, and **Route**. The table is updated as of 04/30 at 1722. Below the table is a toolbar with buttons for **Print**, **Save**, **Close**, **Help**, **Hold**, **Info**, **Reroute**, and **Filter**. The **Filter** button is active, and a dropdown menu is open, showing a list of airlines: **All Flights**, **AAL**, **ACA**, **ALO**, **AMW**, **AMT**, **ARN**, **ASA**, **ASH**, **AWE**, and **AWI**.

Reroute	ACID	Entry	Exit	Orig	Dest	ETD	Type	Speed	Alt	Route
AAL1086	A	1732	1738	DEN	DFW	A1642	MD80	444	330	DEN./3728N/10323W..UKW..UKW7..DFW
AAL114	A	1736	1741	LAX	EWR	A1548	B762	458	370	LAX./ESPAN102041..SGF.J98.FAM.J78.L
AAL1302	A	1718	1721	SEA	DFW	A1428	MD80	439	330	SEA./3722N/10437W..UKW..UKW7..DFW
AAL1822	A	1745	1746	SLC	DFW	A1615	MD80	438	370	SLC./KENTO251060..UKW..UKW7..DFW
AAL19	A	1739	1739	JFK	LAX	A1441	B772	475	390	JFK./3844N/08019W..FAM.J98.SGF..LBI
AAL2	A	1807	1815	LAX	JFK	A1619	B762	458	370	LAX./TRM..DRK.J96.GUP.J8.BGD..GAG
AAL2081	A	1728	1735	DFW	CYYC	A1658	MD80	446	310	KDFW.TEX7.ADM..GLD..SNY..BIL..YQI
AAL226	A	1743	1750	SAN	BOS	A1558	B738	458	330	SAN./IPL.J18.GBN.J18.LVS.J8.BGD..GAG
AAL2855	A	1820	1829	STL	LAX	A1713	B752	458	350	STL./VIH061044..SGF..PER..GAG..LVS.J
AAL3017	P	1844	1853	STL	ABQ	P1737	MD80	440	350	STL.LINDY2.MAP..SGF..PER..GAG..LVS
AAL3031	A	1832	1841	STL	SAN	A1720	MD80	450	310	STL.LINDY2.MAP..SGF..PER..GAG..LVS
AAL3053	A	1820	1829	STL	PHX	A1710	MD80	447	310	STL.LINDY2.MAP..SGF..PER..GAG..LVS
AAL3135	P	1858	1904	STL	DEN	P1751	MD80	440	350	STL.LINDY2.MAP..SGF..PER..GAG.J98.L
AAL3193	P	1837	1851	DFW	DEN	P1809	B752	452	390	DFW.TEX7.ROLLS..LBL..LAA..QUAIL4.D
AAL528	P	1808	1811	COS	DFW	P1730	MD80	436	370	COS.BRK135R.BRK135045..BGD..UKW7
AAL61	A	1750	1805	DFW	RJAA	A1717	B772	483	350	KDFW.TEX7.ROLLS..GCK..CZI..HIA..YV
AAL73	A	1713	1723	ORD	HNL	A1534	B763	476	310	KORD./3515N/09939W..TNP..SXC.C117
AAL814	A	1758	1802	CYVR	DFW	A1447	MD80	435	330	CYVR./OCS192015..BGD..UKW7.KDFW



The following report sample was filtered by airline AAL.



Refreshing Report FCA001

Arrivals										
Reroute	ACID	Entry	Exit	Orig	Dest	ETD	Type	Speed	Alt	Route
	AAL1840	P 1552	1601	ORD	PVD	P1536	MD80	435	330	ORD..ELX..CRL.J554.JHW.J82.MEMMS.J522.HD
	AAL2034	P 1541	1552	ORD	BOS	P1524	MD80	438	330	ORD..ELX..CRL.J554.JHW.J82.ALB.GDM3.BOS.
	AAL2864	P 1643	1643	STL	BDL	P1618	MD80	445	330	STL.GATWY4.ROD..CXR..JHW.J82.WILET.SWI
	AAL382	P 1537	1549	ORD	LGA	P1524	MD80	442	330	ORD..GIJ.J146.ETG.MIP3.LGA/0133
	AAL888	P 1624	1624	STL	BOS	P1559	MD80	442	330	STL.GATWY4.ROD.J29.JHW.J82.ALB.GDM3.BC

Print Save Close Help Hold Info Reroute Filter: AAL

## Delete FEA

The **Delete FEA** command lets you remove current FEA from the database.

**Note:** Only users at Command Center can delete public FCAs.

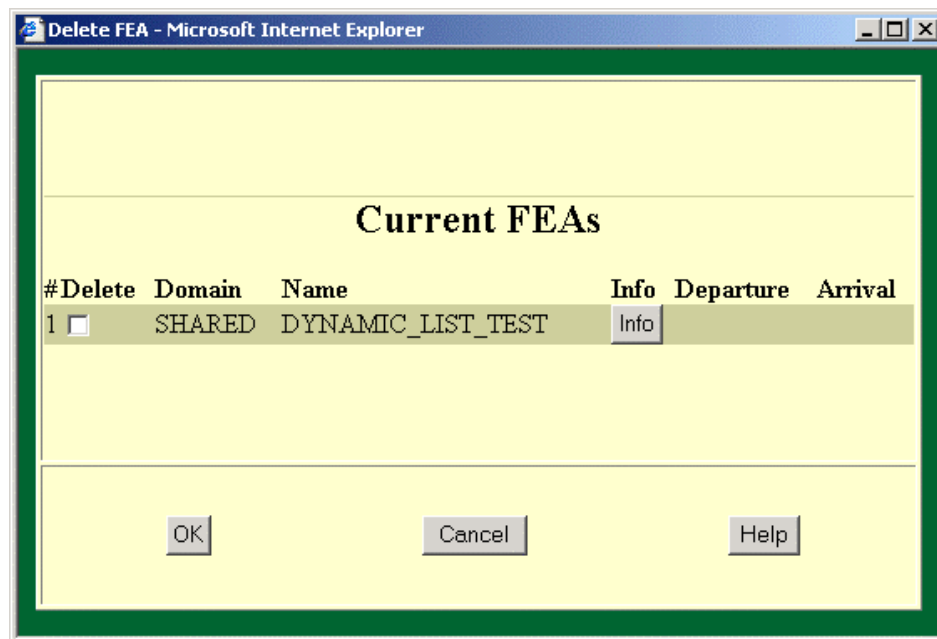
Display
Maps
Alerts
Weather
Reroute
FEA/FCA
Tools
Help

1. Click **FEA/FCA** on the Main Menu.
2. Click **Delete FEA**.

Hide FEA/FCAs  
 Select FEA/FCAs...  
 Create FEA...  
 Edit FEA...  
 Examine FEA/FCA...  
 Delete FEA...

To delete an FEA,

1. Click **FEA/FCA** on the Main Menu and **Delete FEA**.  
The Delete FEA dialog box appears. It only lists the FEAs that you are authorized to delete.



2. On the Delete FEA dialog box, click the check box for the number of the FEA you want to delete.
3. Click **OK**.
4. On the Delete Confirmation dialog box, confirm your delete request by clicking **Yes**.